

WHAT IS CLAIMED IS:

1. - 15. (canceled)

16. (currently amended) A biocompatible scaffold for tissue culture and cell culture and for producing implants or implant materials, the scaffold comprised of at least one base material in the form of a three-dimensional body and fibers connected to at least one side of the three-dimensional body, wherein the fibers are connected to the at least one side by electrostatic flocking and by electrostatic flocking are arranged on the at least one side substantially perpendicular to a surface of said at least one side, wherein the at least one base material and the fibers are comprised of a resorbable material, respectively, wherein the resorbable material of the fibers is a resorbable polymer, and wherein the resorbable material of the at least one base material is selected from the group consisting of collagen, collagen derivatives, hyaluronic acid, chitosan, gelatine, and composites thereof ~~of collagen, collagen derivatives, hyaluronic acid, chitosan and gelatine.~~

17. (canceled)

18. (canceled)

19. (previously presented) The scaffold according to claim 16, wherein the resorbable material of the fibers is selected from the group consisting of polylactide; polycaprolactone; polyhydroxybutyrate; polyglycolide; derivatives of polylactide, polycaprolactone, polyhydroxybutyrate, or polyglycolide; and copolymers of polylactide, polycaprolactone, polyhydroxybutyrate, or polyglycolide.

20. (previously presented) A biocompatible scaffold for tissue culture and cell culture and for producing implants or implant materials, the scaffold comprised of at least one base material in the form of a three-dimensional body, an adhesive covering at least one side of the three-dimensional body, and fibers connected by the adhesive to the at least one side and applied by electrostatic flocking.

21. (previously presented) The scaffold according to claim 20, wherein at least one of the at least one base material, the adhesive, and the fibers are comprised of a resorbable material.

22. (previously presented) The scaffold according to claim 21, wherein the

resorbable material of the fibers is a resorbable polymer; wherein the resorbable material of the base material is selected from the group consisting of collagen; collagen derivatives; hyaluronic acid; chitosan; gelatine; and composites of collagen, collagen derivatives, hyaluronic acid, chitosan or gelatine.

23. (previously presented) The scaffold according to claim 22, wherein the resorbable material of the adhesive is selected from the group consisting of collagen; collagen derivatives; hyaluronic acid; chitosan; gelatine; and composites of collagen, collagen derivatives, hyaluronic acid, chitosan or gelatine.

24. (previously presented) The scaffold according to claim 22, wherein the resorbable material of the fibers is selected from the group consisting of polylactide; polycaprolactone; polyhydroxybutyrate; polyglycolide; derivatives of polylactide, polycaprolactone, polyhydroxybutyrate, or polyglycolide; and copolymers of polylactide, polycaprolactone, polyhydroxybutyrate, or polyglycolide.\*

25. (previously presented) A biocompatible scaffold for tissue culture and cell culture and for producing implants or implant materials, the scaffold comprised of at least one base material and fibers that are electrostatically flocked onto at least one side of the at least one base material, wherein the fibers have a length between 0.3 mm and 3 mm.

26. (previously presented) The scaffold according to claim 25, wherein the fibers have a diameter of between 10  $\mu\text{m}$  and 200  $\mu\text{m}$ .

27. (previously presented) The scaffold according to claim 28, wherein the fibers have a diameter of between 10  $\mu\text{m}$  and 200  $\mu\text{m}$ .

28. (previously presented) A biocompatible scaffold for tissue culture and cell culture and for producing implants or implant materials, the scaffold comprised of at least one base material and fibers that are electrostatically flocked onto at least one side of the at least one base material, wherein the fibers are arranged on the base material so as to have a mean distance from 40  $\mu\text{m}$  to 250  $\mu\text{m}$ .

29. (previously presented) A biocompatible scaffold for tissue culture and cell culture and for producing implants or implant materials, the scaffold comprised of at least one base material and fibers that are electrostatically flocked onto at least one

side of the at least one base material, wherein at least some of the fibers are hollow fibers.

30. (previously presented) The scaffold according to claim 20, further comprising cells colonized on the scaffold.

31. (withdrawn) A multi-layered scaffold structure comprising at least two biocompatible scaffolds according to claim 20 that are connected to one another.

32. (withdrawn) The multi-layered scaffold structure according to claim 31, wherein the at least two biocompatible scaffolds are stacked on top of one another.

33. (withdrawn) The multi-layered scaffold structure according to claim 32, wherein the at least two biocompatible scaffolds are inserted into one another with the at least one side flocked with the fibers.

34. (withdrawn) The multi-layered scaffold structure according claim 31, comprising cavities or a system of cavities.

35. (withdrawn) An implant material comprising a biocompatible scaffold according to claim 20 or a multi-layered scaffold structure according to claim 31.

36. (withdrawn) The implant material according to claim 35, further comprising an envelope surrounding the biocompatible scaffold or the multi-layered scaffold structure.

37. (withdrawn) The implant material according to claim 36, wherein the envelope is a textile fabric, a film, or a tape.

38. (withdrawn) An implant comprising a biocompatible scaffold according to claim 20 or a multi-layered scaffold structure according to claim 31.

39. (withdrawn) The implant according to claim 38, further comprising an envelope surrounding the biocompatible scaffold or the multi-layered scaffold structure.

40. (withdrawn) The implant according to claim 39, wherein the envelope is a textile fabric, a film, or a tape.

41. (canceled)

42. (canceled)

43. (canceled)

44. (previously presented) The scaffold according to claim 16, wherein the

composites are collagen-hyaluronic acid composites or hydroxyapatite collagen composites.

45. (previously presented) The scaffold according to claim 22, wherein the composites are collagen-hyaluronic acid composites or hydroxyapatite collagen composites.

46. (previously presented) A process for producing a tissue culture or a cell culture or an implant material, comprising the steps of:

- a) introducing cells into a biocompatible scaffold according to claim 20;
- b) incubating the cells in the scaffold for colonizing the scaffold with cells and forming an extra-cellular matrix.

47. (previously presented) An implant material containing cells and an extra-cellular matrix, produced by the steps of:

- a) introducing cells into a biocompatible scaffold according to claim 20;
- b) incubating the cells in the scaffold for colonizing the scaffold with cells and forming an extra-cellular matrix;
- c) removing the base material of the biocompatible scaffold after the extra-cellular matrix has been formed.